Cholewa, A.F. 2014. *Lysimachia latifolia* (Myrsinaceae), an overlooked nomenclatural change. Phytoneuron 2014-28: 1–2.
Published 18 February 2014. ISSN 2153 733X

LYSIMACHIA LATIFOLIA (MYRSINACEAE), AN OVERLOOKED NOMENCLATURAL CHANGE

ANITA F. CHOLEWA
Herbarium, J.F. Bell Museum of Natural History
University of Minnesota
1445 Gortner Ave.
St. Paul, Minnesota 55108-1095

ABSTRACT

Lysimachia latifolia (Hook.) Cholewa is a new combination for the overlooked *Trientalis latifolia* Hook.

Phylogenetic relationships within Primulaceae s.l. examined by Anderberg and Stähl (1995) led to extensive reevaluation of the entire Lysimachieae clade. Some years later, Anderberg and colleagues (Anderberg et al. 2007; Källersjö et al. 2000; Manns & Anderberg 2005, 2007a, 2007b; Martins et al. 2003; and others) clearly showed that the traditionally segregated genera of *Anagallis*, *Glaux*, *Trientalis*, and others were specialized taxa derived from within *Lysimachia*. As a result generic realignments were necessitated.

Glaux maritima was merged in *Lysimachia* by Banfi et al. (2005) to become *Lysimachia maritima* (L.) Gelasso, Banfi, & Soldano. Manns and Anderberg (2009) subsequently published the necessary new combinations, along with typification comments for *Anagallis*, *Pelletiera*, and *Trientalis*. Within the North American flora, the following changes were made:

Anagallis arvensis L. became *Lysimachia arvensis* (L.) U. Manns & Anderb.;
Anagallis foemina Mill. became *L. foemina* (Mill.) U. Manns & Anderb.;
Anagallis monelli L. became *L. monelli* (L.) U. Manns & Anderb.;
Anagallis pumila Sw. became *L. ovalis* (Ruíz & Pav.) U. Manns & Anderb.;
Centunculus (*Anagallis*) *minimus* L. became *L. minima* (L.) U. Manns & Anderb.;
Trientalis borealis Raf. became *L. borealis* (Raf.) U. Manns & Anderb.; and
Trientalis europaea L. became *L. europaea* (L.) U. Manns & Anderb.

The nomenclatural updates were incomplete, however, omitting *Trientalis latifolia* Hook. This was understandable since this taxon has sometimes been included within *T. borealis* or *T. europaea*. In the Flora of North America treatment, Cholewa (2009) kept *T. latifolia* as a distinct species, thus the following new combination is proposed.

LYSIMACHIA LATIFOLIA (Hook.) Cholewa, **comb. nov.** *Trientalis latifolia* Hook., Fl. Bor.-Amer. 2(9): 121. 1838. *Trientalis borealis* Raf. subsp. *latifolia* (Hook.) Hultén, Ark. Bot., n.s., 7(1): 105. 1967. *Trientalis europaea* L. var. *latifolia* (Hook.) Torrey, Pacif. Railr. Rep. 4(5): 118. 1857. *Trientalis europaea* L. subsp. *latifolia* (Hook.) A.E. Murray, Kalmia 12: 25. 1982. **TYPE: USA. Washington**. [Clark Co.]: About Fort Vancouver, Walla-wallah [sic] River, *Tolmie s.n.* (holotype: K unconfirmed; isotype: GH digital image!).

LITERATURE CITED

Anderberg, A.A. and B. Stähl. 1995. Phylogenetic interrelationships in the order Primulales, with special emphasis on the family circumscriptions. Canad. J. Bot. 73: 1699–1730.

Anderberg, A.A., U. Manns, and M. Källersjö. 2007. Phylogeny and floral evolution of the Lysimachieae (Ericales, Myrsinaceae): Evidence from *ndhF* sequence data. Willdenowia 37: 407–421.

Banfi, E., G. Galasso, and A. Soldano. 2005. Notes on systematics and taxonomy for the Italian vascular flora 1. Atti Soc. Ital. Sci. Nat. Mus. Vivico storia Nat. Milano 146: 219–244.

Cholewa, A.F. 2009. *Trientalis*. Flora of North America 8: 303–305.

Källersjö, M., G. Bergqvist, and A.A. Anderberg. 2000. Generic realignment in primuloid families of the Ericales s.l.: A phylogenetic analysis based on DNA sequences from three chloroplast genes and morphology. Amer. J. Bot. 87: 1324–1341.

Manns, U. and A.A. Anderberg. 2005. Molecular phylogeny of *Anagallis* (Myrsinaceae) based on ITS, *trnL-F*, and *ndhF* sequence data. Int. J. Pl. Sci. 166: 1019–1028.

Manns, U. and A.A. Anderberg. 2007a. Character evolution in *Anagallis* (Myrsinaceae), inferred from morphological and molecular data. Syst. Bot. 32: 166–179.

Manns, U. and A.A. Anderberg. 2007b. Relationships of *Anagalis foemina* and *A. arvensis* (Myrsinaceae): New insights inferred from DNA sequence data. Molec. Phylogenet. Evol. 45: 971–980.

Manns, U. and A.A. Anderberg. 2009. New combinations and names in *Lysimachia* (Myrsinaceae) for species of *Anagallis*, *Pelletiera* and *Trientalis*. Willdenowia 39: 49–54.

Martins, L., C. Oberprieler, and F.H. Hellwig. 2003. A phylogenetic analysis of Primulaceae s.l. based on internal transcribed spacer (ITS) DNA sequence data. Pl. Syst. Evol. 237: 75–85.